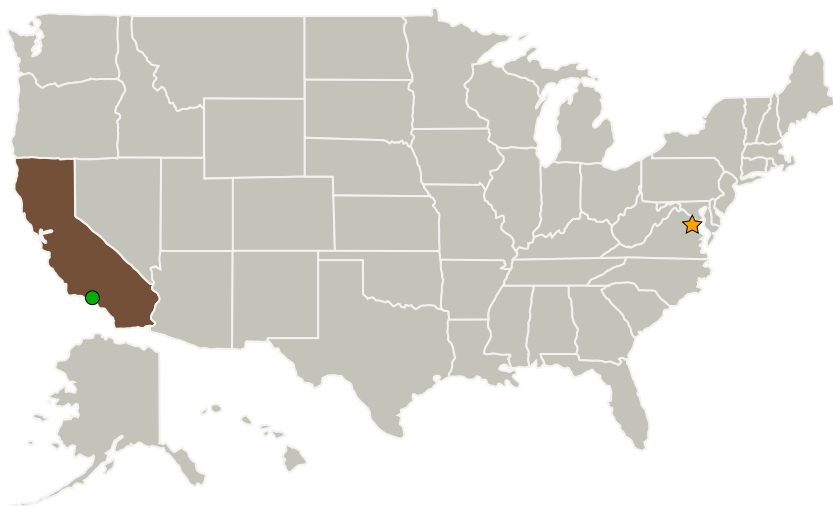


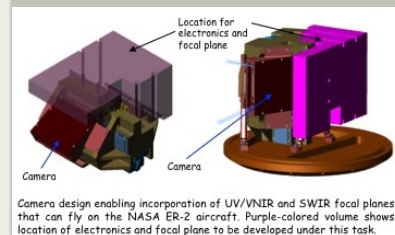
Project Introduction

- Build and demonstrate airborne UV-VNIR-SWIR multiangle polarimetric camera for aerosol and cloud remote sensing for ACE mission.
- Develop multi-line SWIR detector and read-out integrated circuit (ROIC) that is high speed (12 Mpix/sec), low noise and can meet precise synchronization requirements of a Photoelastic Modulators (PEM) based camera.
- Integrate SWIR focal plane assembly with miniaturized spectropolarimetric filters bonded to the hybridized detector array.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
● Jet Propulsion Laboratory(JPL)	Supporting Organization	NASA Center	Pasadena, California



Project Image Aircraft deployable UV-SWIR multiangle spectropolarimetric imager

Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Organizational Responsibility	1
Images	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	2
Target Destination	2

Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

Aircraft deployable UV-SWIR multiangle spectropolarimetric imager

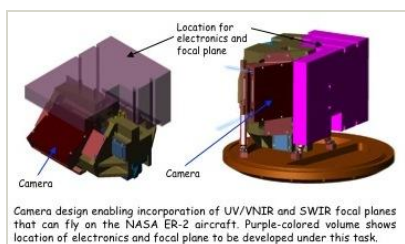


Completed Technology Project (2012 - 2015)

Primary U.S. Work Locations

California

Images

**10966-1359990867084.jpg**

Project Image Aircraft deployable
UV-SWIR multiangle
spectropolarimetric imager
(<https://techport.nasa.gov/image/1561>)

Project Management

Program Director:

George J Komar

Project Manager:

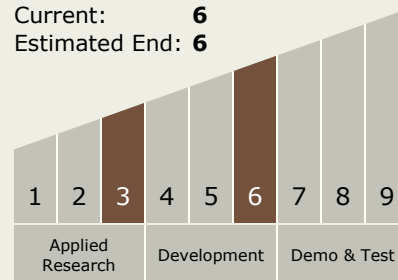
Parminder S Ghuman

Principal Investigator:

David J Diner

Technology Maturity (TRL)

Start: **3**
Current: **6**
Estimated End: **6**



Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └ TX08.1 Remote Sensing Instruments/Sensors
 - └ TX08.1.1 Detectors and Focal Planes

Target Destination

Earth